

Outdoor Rated, Omni Directional Antenna, 430-440 MHz & 860-930 MHz

Pulse Part Number RO3ISMNM



Pulse is proud to introduce the latest offering in the 'Radome Omni' Series. This omni directional antenna operates in the frequency ranges of 430-440 MHz and 860-930 MHz. The antenna is ideal for communications requiring omni directional radiation patterns in an outdoor operating environment. The RO3ISMNM is suitable to be mounted with full exposure to wind, rain, snow, high temperatures and sun exposure. The antenna is also DC grounded for lightning protection.

Measuring 21" and featuring a Type N Male connector allows the antenna to be deployed via pole mounts or directly to radio chassis. Stable radiation patterns and gain across all frequencies make install and network performance consistent through all supported radio channels.

FEATURES

- Supports ISM and unlicensed bands across North America and EU
- IP67
- Stable gain and radiation patterns across all operating bands
- RoHS Compliant

APPLICATION

- ISM
- 430-440 MHz EU Amateur radio
- 860-930 MHz

**Contact factory for N-FEMALE option requirements

Confidential and Proprietary — Pulse Electronics — All Rights Reserved — 2015

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

San Diego, California
858 674 8100

Vancouver, Washington
360 944 7551

Europe
49 7032 7806 0

China
86 512 6807 9998

Outdoor Rated, Omni Directional Antenna, 430-440 MHz & 860-930 MHz

Pulse Part Number RO3ISMNM

Antennas and accessory products covered in this documents are as follows:

Electrical Specifications

Frequency (MHz)	430-440Mhz
Frequency (MHz)	860-930Mhz
Nominal Impedence (Ω)	50
VSWR Freq 1	2:1
VSWR Freq 2	2:1
Gain (dBi) Freq 1	2
Gain (dBi) Freq 2	2.5
Pattern Data Horizontal	360°
Pattern Data Vertical Freq 1	62°
Pattern Data Vertical FREQ 2	45°
Polarization	Vertical
Power Rating (W)	20 Watts

Environmental Specifications

Operation Temperature	-40 / 85 C
-----------------------	------------

Mechanical Specifications

Color	White
Ingress Protection	IP67
Overall Height (inches/mm)	21.28 in. / 541 mm
Wind Load Rating	150 MPH
Connector	N MALE
Weight	265 g

San Diego, California
858 674 8100

Vancouver, Washington
360 944 7551

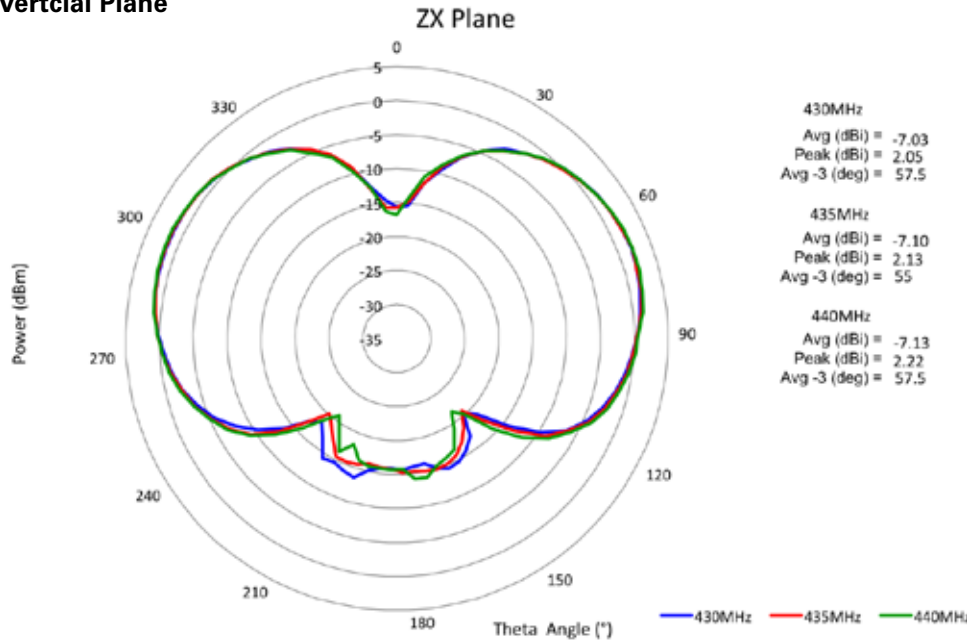
Europe
49 7032 7806 0

China
86 512 6807 9998

Outdoor Rated, Omni Directional Antenna, 430-440 MHz & 860-930 MHz

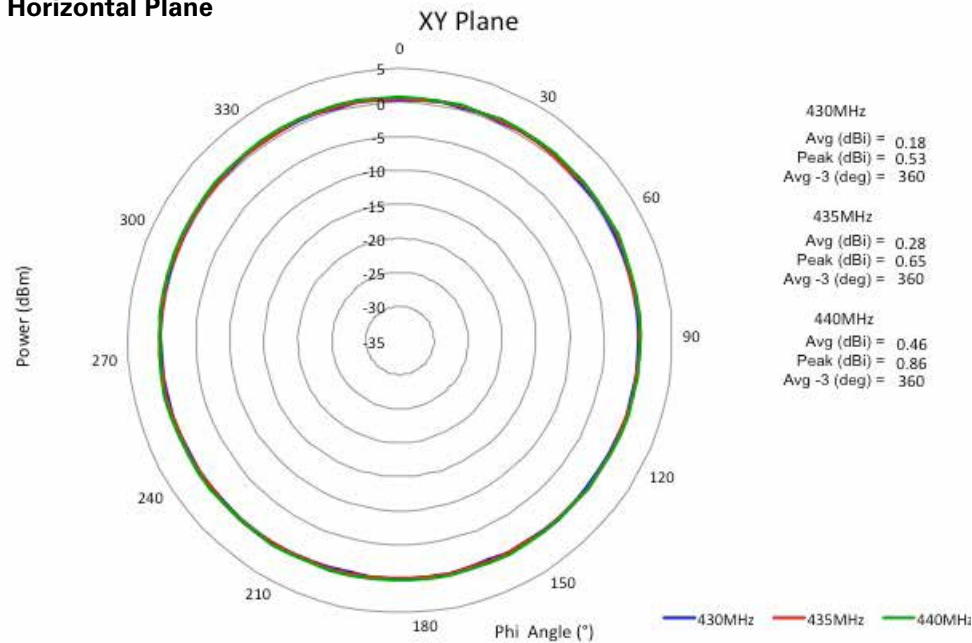
Pulse Part Number RO3ISMNM

Vertical Plane



Radiation Patterns 430 MHz

Horizontal Plane



San Diego, California
858 674 8100

Vancouver, Washington
360 944 7551

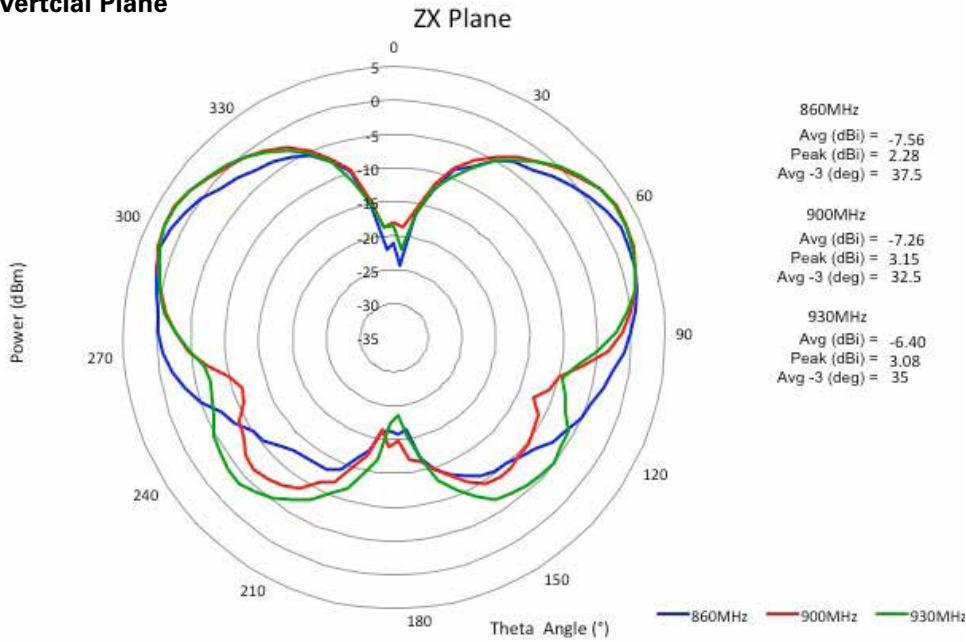
Europe
49 7032 7806 0

China
86 512 6807 9998

Outdoor Rated, Omni Directional Antenna, 430-440 MHz & 860-930 MHz

Pulse Part Number RO3ISMNM

Vertical Plane



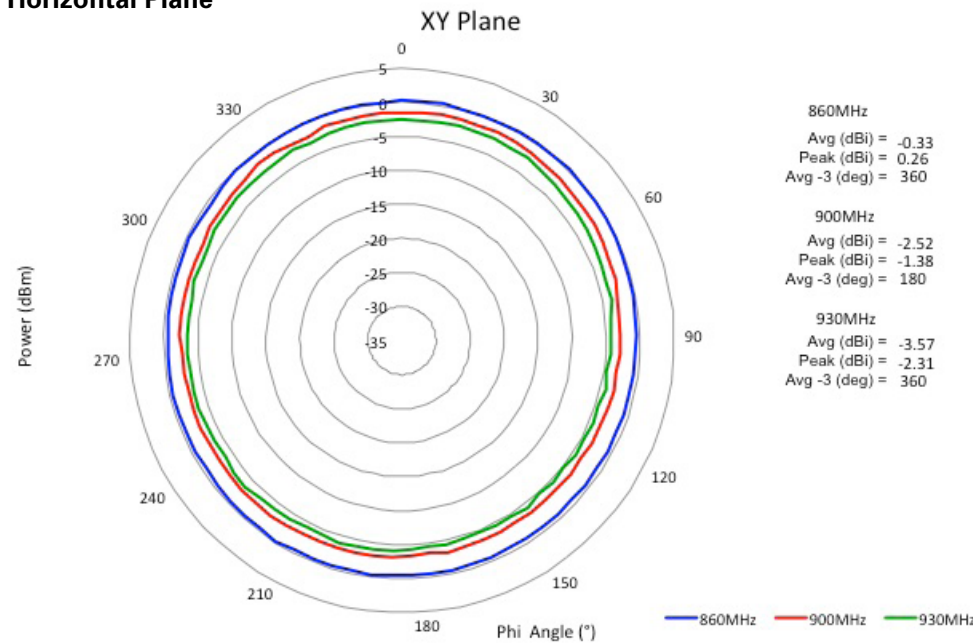
Radiation Patterns 860 MHz

860MHz
Avg (dBi) = -7.56
Peak (dBi) = 2.28
Avg -3 (deg) = 37.5

900MHz
Avg (dBi) = -7.26
Peak (dBi) = 3.15
Avg -3 (deg) = 32.5

930MHz
Avg (dBi) = -6.40
Peak (dBi) = 3.08
Avg -3 (deg) = 35

Horizontal Plane



860MHz
Avg (dBi) = -0.33
Peak (dBi) = 0.26
Avg -3 (deg) = 360

900MHz
Avg (dBi) = -2.52
Peak (dBi) = -1.38
Avg -3 (deg) = 180

930MHz
Avg (dBi) = -3.57
Peak (dBi) = -2.31
Avg -3 (deg) = 360

San Diego, California
858 674 8100

Vancouver, Washington
360 944 7551

Europe
49 7032 7806 0

China
86 512 6807 9998

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Antennas](#) category:

Click to view products by [PulseLarsen](#) manufacturer:

Other Similar products are found below :

[GAN30084EU](#) [930-033-R](#) [GW17.07.0250E](#) [1513563-1](#) [EXE902SM](#) [APAMPG-117](#) [MAF94383](#) [W3908B0100](#) [W6102B0100](#) [YE572113-30RSMM](#) [108-00014-50](#) [66089-2406](#) [SPDA17RP918](#) [A09-F8NF-M](#) [A09-F5NF-M](#) [RGFRA1903041A1T](#) [W3593B0100](#) [W3921B0100](#) [SIMNA-868](#) [SIMNA-915](#) [SIMNA-433](#) [W1044](#) [W1049B090](#) [A75-001](#) [WTL2449CQ1-FRSMM](#) [CPL9C](#) [EXB148BN](#) [0600-00060](#) [TRA9020S3PBN-001](#) [Y4503](#) [GD5W-28P-NF](#) [MA9-7N](#) [GD53-25](#) [GD5W-21P-NF](#) [C37](#) [MAF94051](#) [MA9-5N](#) [EXD420PL](#) [B1322NR](#) [QWFTB120](#) [MAF94271](#) [MAF94300](#) [GPSMB301](#) [FG4403](#) [AO-AGSM-OM54](#) [5200232](#) [MIKROE-2349](#) [WCM.01.0111](#) [MIKROE-2393](#) [MIKROE-2352](#)